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Substitute for form 1449A/PTO

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1 of 6

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Application Number	10/718,887
Filing Date	November 21, 2003
First Named Inventor	Xu, et al.
Group Art Unit	2818
Examiner Name	Quoc Dinh Hoang
Attorney Docket Number	APPM/005620.C1/DSM/LOW K/JW

Submission Date

October 21, 2005

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A	A1	US-3,960,619	6/1/1976	Seiter	
	A2	US-4,262,631	4/21/1981	Kubacki	
	A3	US-4,532,150	7/30/1985	Endo, et al.	
	A4	US-4,634,601	1/6/1987	Hamakawa, et al.	
	A5	US-4,759,947	7/26/1988	Ishihara, et al.	
	A6	US-4,822,697	4/18/1989	Haluska, et al.	
	A7	US-4,885,220	12/5/1989	Kuhman, et al.	
	A8	US-4,894,352	1/16/1990	Lane, et al.	
	A9	US-5,000,819	3/19/1991	Pedder, et al.	
	A10	US-5,082,695	1/21/1992	Yamada, et al.	
	A11	US-5,103,285	4/7/1992	Furumura, et al.	
	A12	US-5,232,871	8/3/1993	Ho	
	A13	US-5,238,866	8/24/1993	Bolz, et al.	
	A14	US-5,300,951	4/5/1994	Yamazaki	
	A15	US-5,314,724	5/24/1994	Tsukune, et al.	
	A16	US-5,362,526	11/8/1994	Wang, et al.	
	A17	US-5,409,543	4/25/1995	Panitz, et al.	
	A18	US-5,423,941	6/13/1995	Komura, et al.	
	A19	US-5,427,621	6/27/1995	Gupta	
	A20	US-5,451,263	9/19/1995	Linn, et al.	
	A21	US-5,465,680	11/14/1995	Loboda	
	A22	US-5,508,067	4/16/1996	Sato, et al.	
	A23	US-5,525,550	6/11/1996	Kato	
	A24	US-5,554,570	9/10/1996	Maeda, et al.	
	A25	US-5,591,494	1/7/1997	Sato, et al.	
	A26	US-5,591,566	1/7/1997	Ogawa	
	A27	US-5,593,741	1/14/1997	Ikeda	
m	A28	US-5,597,566	1/28/1997	Hufs	

Examiner

Quoc Hoang

Date Considered

11/20/05

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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 6

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		Number-Kind Code <sup>2</sup> (* known)			
hu	A29	US-5,618,619	4/8/1997	Petr michl, et al.	
	A30	US-5,627,105	5/6/1997	Delfino, et al.	
	A31	US-5,660,682	8/26/1997	Zhao, et al.	
	A32	US-5,679,413	10/21/1997	Petr michl, et al.	
	A33	US-5,711,987	1/27/1998	Bearinger, et al.	
	A34	US-5,726,097	3/10/1998	Yanagida	
	A35	US-5,741,626	4/21/1998	Jain, et al.	
	A36	US-5,780,163	7/14/1998	Camilletti, et al.	
	A37	US-5,801,098	9/1/1998	Fiordalice, et al.	
	A38	US-5,818,071	10/6/1998	Loboda, et al.	
	A39	US-5,821,168	10/13/1998	Jain	
	A40	US-5,926,437	7/20/1999	Forbes, et al.	
	A41	US-5,926,740	7/20/1999	Forbes, et al.	
	A42	US-5,953,627	9/14/1999	Carter, et al.	
	A43	US-5,989,998	11/23/1999	Sugahara, et al.	
	A44	US-5,998,100	12/7/1999	Azuma, et al.	
	A45	US-6,041,734	3/28/2000	Raoux, et al.	
	A46	US-6,046,758	4/4/2000	Brown, et al.	
	A47	US-6,051,321	4/18/2000	Lee, et al.	
	A48	US-6,054,379	4/25/2000	Yau, et al.	
	A49	US-6,060,132	5/9/2000	Lee	
	A50	US-6,068,884	5/30/2000	Rose, et al.	
	A51	US-6,103,456	8/15/2000	Tobben, et al.	
	A52	US-6,107,192	8/22/2000	Subrahmanyam, et al.	
	A53	US-6,114,259	9/5/2000	Sukharev, et al.	
	A54	US-6,140,226	10/31/2000	Grill, et al.	
hu	A55	US-6,147,009	11/14/2000	Grill, et al.	
hu	A56	US-6,159,871	12/12/2000	Loboda, et al.	

Examiner

*Quoc Dinh Hoang*

Date Considered

*11/2005*

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Sheet

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Application Number	10/718,887
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Attorney Docket Number	APPM/005620.C1/DSM/LOW KJW

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		Number-Kind Code <sup>2</sup> (if known)			
by	A57	US-6,287,990	9/11/2001	Cheung, et al.	
	A58	US-6,303,523	10/16/2001	Cheung, et al.	
	A59	US-6,312,793	11/6/2001	Grill, et al.	
	A60	US-6,316,167	11/13/2001	Angelopoulos, et al.	
	A61	US-6,340,628	1/22/2002	Van Cleemput, et al.	
	A62	US-6,364,954	4/2/2002	Umotoy et al.	
	A63	US-6,372,661	4/15/2002	Lin, et al.	
	A64	US-6,410,437	6/25/2002	Flanner, et al.	
	A65	US-6,417,092	7/9/2002	Jain	
	A66	US-6,429,121	8/6/2002	Hopper, et al.	
	A67	US-6,436,824	8/20/2002	Chooi, et al.	
	A68	US-6,444,568	9/3/2002	Sundararajan, et al	
	A69	US-6,462,371	10/8/2002	Weimer, et al.	
	A70	US-6,465,366	10/15/2002	Nemani et al.	
	A71	US-6,489,238	12/3/2002	Tsui	
	A72	US-6,495,448	12/17/2002	Lee	
	A73	US-6,528,423	3/4/2003	Cataby, et al.	
	A74	US-6,528,426	3/4/2003	Olsen, et al.	
	A75	US-6,531,398	3/11/2003	Gaillard et al.	
	A76	US-6,534,397	3/18/2003	Okada, et al.	
	A77	US-6,537,733	3/25/2003	Campana et al.	
	A78	US-6,555,476	4/29/2003	Olsen, et al.	
	A79	US-6,593,653	7/15/2003	Sundararajan, et al.	
	A80	US-6,627,532	9/30/2003	Gaillard et al.	
	A81	US-6,630,412	10/7/2003	Shioya, et al.	
	A82	US-6,645,883	11/11/2003	Yamamoto, et al.	
	A83	US-6,756,672	6/29/2004	You, et al.	
by	A84	US-6,764,311	9/21/2004	Huang et al.	

Examiner

*Quoc Dinh Hoang*

Date Considered

*11/2005*

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	November 21, 2003
(Use as many sheets as necessary)		First Named Inventor	Xu, et al.
		Group Art Unit	2818
		Examiner Name	Quoc Dinh Hoang
		Attorney Docket Number	APPM/005620.C1/DSM/LOW K/JW
Sheet	4	of	6
		Submission Date	October 21, 2005

## **U.S. PATENT DOCUMENTS**

Examiner

Chris Huang

**Date Considered**

4/2005

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Sheet 5

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
QH	B1	EP 0 725 440	8/7/1996	Loboda, et al.		
	B2	EP 0 771 886	6/7/1997	Loboda		
	B3	EP 0 926 715	6/30/1999	Olsen et al.		
	B4	EP 0 926 724	6/30/1999	Swanson et al.		
	B5	EP 1 050 601	11/8/2000	Xia, et al.		
	B6	JP 06-204191 (English Translation)	7/22/1994	Keiji		X
	B7	JP 10-223758 (English Translation)	8/21/1998	Nobuhisa		X
	B8	JP 61257475 (English Translation)	11/14/1986	Arai		X
	B9	WO 00/19498	4/6/2000	Huang		
QH	B10	WO 00/19508	4/6/2000	Rathi et al.		
QH	B11	WO 99/33102	7/1/1999	Somekh		

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*Quoc Dinh Hoang*

Date Considered

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>QH</i>	C1	DIJKSTRA, ET AL. "Optimization of Anti-Reflection Layers for Deep UV Lithography", Proceedings of SPIE Optical/Laser Microlithography VI, Vol. 1927 1993, pp. 275-286.	
	C2	European Search Report from EP 01116054.6-2119 dated October 30, 2001. (APPM/004686 EP)	
	C3	Huang, "IN SITU DEPOSITION OF A LOW K DIELECTRIC LAYER, BARRIER LAYER, ETCH STOP, AND ANTI-REFLECTIVE COATING FOR DAMASCENE APPLICATION", USSN 09/270,039, Filed March 16, 1999. (AMAT/2966.X3)	
	C4	OGAWA, ET AL. "Novel ARC Optimization Methodology for KrF Excimer Laser Lithography at Low K1 Factor", Proceedings of the SPIE Optical/Laser Microlithography V, Vol. 1674 1992, pp. 362-375.	
<i>QH</i>	C5	SWOPE, ET AL. "Improvement of Adhesion Properties of Fluorinated Silica Glass Films by Nitrous Oxide Plasma Treatment" J. Electrochemical Society 144(7) July 1977, pp. 2259-2564.	
<i>QH</i>	C6	TAKEISHI, ET AL. "Stabilizing Dielectric Constants of Fluorine-Doped SiO <sub>2</sub> Films by N <sub>2</sub> O-Plasma Annealing, J. Electrochemical Society 143(1) January 1996, pp. 381-384.	

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